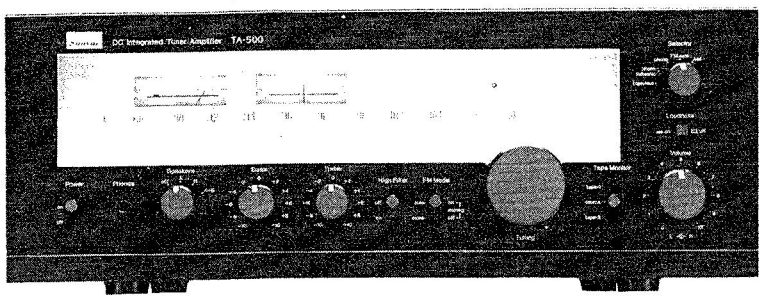
SERVICE MANUAL

DC INTEGRATED TUNER AMPLIFIER

SANSUI TA-300/500



Sansui

SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

• Audio section

Power output

<TA-300>

Min. RMS, both channel driven, from 20 to 20,000 Hz, with no more than 0.06 % total harmonic distortion.
30 watts per channel into 8 ohms

<TA-500>

Min. RMS, both channel driven, from 20 to 20,000 Hz, with no more than 0.05 % total harmonic distortion.
50 watts per channel into 8 ohms

Load impedance . . . . 8 ohms

Total harmonic distortion

<TA-300> . . . . . less than 0.06 % at or below rated min. RMS power output

<TA-500> . . . . . less than 0.05 % at or below rated min. RMS power output

Intermodulation distortion (70 Hz : 7 kHz = 4:1 SMPTE method)

<TA-300> . . . . . less than 0.06 %

<TA-500> . . . . . less than 0.05 %

Frequency response (at 1 watt)

. . . . . 10 to 50,000 Hz +1 dB – 3 dB

RIAA curve deviation (PHONO)

. . . . . +0.5 dB –0.5 dB (30 to 15,000 Hz)

Damping factor . . . . . 40 into 8 ohms

Input sensitivity and impedance (1 kHz, for rated power output)

PHONO . . . . . 2.5 mV/47 kilohms

(Max. input capability; 210 mV at 1 kHz, less than 0.5 % total harmonic distortion)

TAPE/AUX, TAPE . 150 mV/47 kilohms

Output level (1 kHz)

TAPE REC . . . . . 150 mV/47 kilohms

Channel separation (1 kHz)

PHONO . . . . . 50 dB

TAPE/AUX . . . . . 50 dB

Hum and noise (short-circuit, A-network)

PHONO . . . . . 75 dB

TAPE/AUX . . . . . 95 dB

Controls

BASS . . . . . ±10 dB (50 Hz)

TREBLE . . . . . ±10 dB (10 kHz)

LOUDNESS (–30 dB)

. . . . . 8 dB at 50 Hz
6 dB at 10 kHz

• FM section

Tuning range . . . . . 88 to 108 MHz

Usable sensitivity

Mono IHF . . . . . 10.8 dBf (1.9μV)

DIN 1.2μV

Stereo IHF . . . . . 19.0 dBf

50 dB Quieting sensitivity

Mono . . . . . 15 dBf

Stereo . . . . . 38 dBf

Signal to noise ratio (at 65 dBf)

Mono . . . . . 75 dB

Stereo . . . . . 70 dB

Distortion (at 65 dBf)

Mono . . . . . less than 0.18 % at 100 Hz
less than 0.10 % at 1,000 Hz
less than 0.25 % at 6,000 Hz

Stereo . . . . . less than 0.3 % at 100 Hz
less than 0.15 % at 1,000 Hz
less than 0.30 % at 6,000 Hz

Alternate channel selectivity (at 400 kHz)

. . . . . 50 dB

Capture ratio . . . . . 1.0 dB

Image response ratio . . 55 dB (at 98 MHz)

Spurious response ratio

. . . . . 70 dB (at 98 MHz)

Stereo separation . . . . 30 dB at 100 Hz
40 dB at 1,000 Hz
28 dB at 10,000 Hz

Frequency response . . 30 to 15,000 Hz
+0.5 dB –1.0 dB

Antenna input impedance

. . . . . 300 ohms balanced
75 ohms unbalanced

• AM section

Tuning range . . . . . 530 to 1,600 kHz

Usable sensitivity (Bar antenna)

. . . . . 50 dB/m (300μV/m)

Selectivity . . . . . 33 dB

Signal to noise ratio . . 46 dB

Power requirements

Power voltage . . . . 100, 120, 220, 240 V (50/60 Hz)
For U.S.A. and Canada
. . . . . 120 V (60 Hz)

Power consumption Rated

<TA-300> . . . . . 110 watts 135 VA

<TA-500> . . . . . 190 watts 230 VA

Dimensions . . . . . 430 mm (16-15/16") W
160 mm (6-5/16") H
399 mm (15-3/4") D

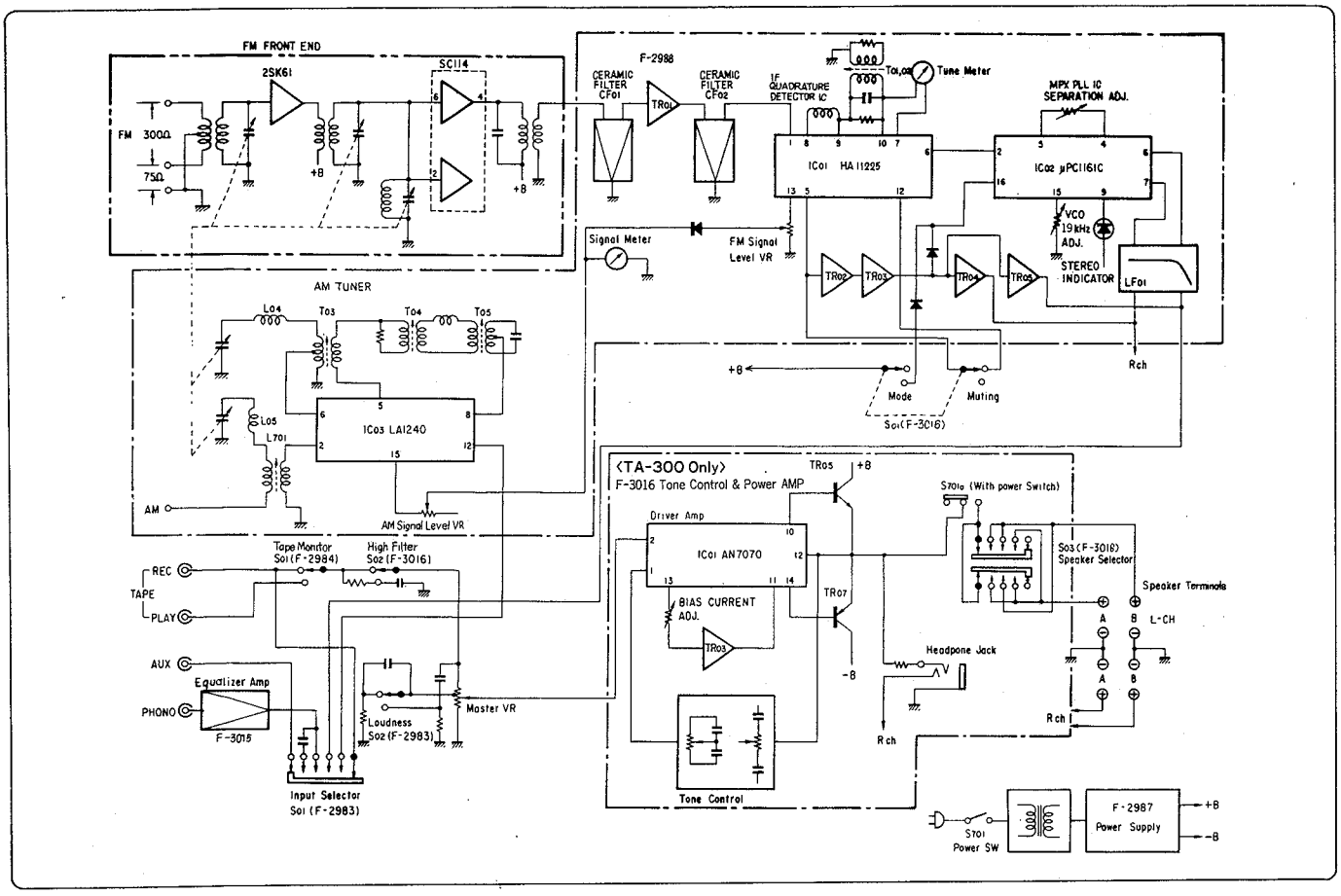
Weight

<TA-300> . . . . . 9.4 kg (20.7 lbs) net
11.2 kg (24.7 lbs) packed

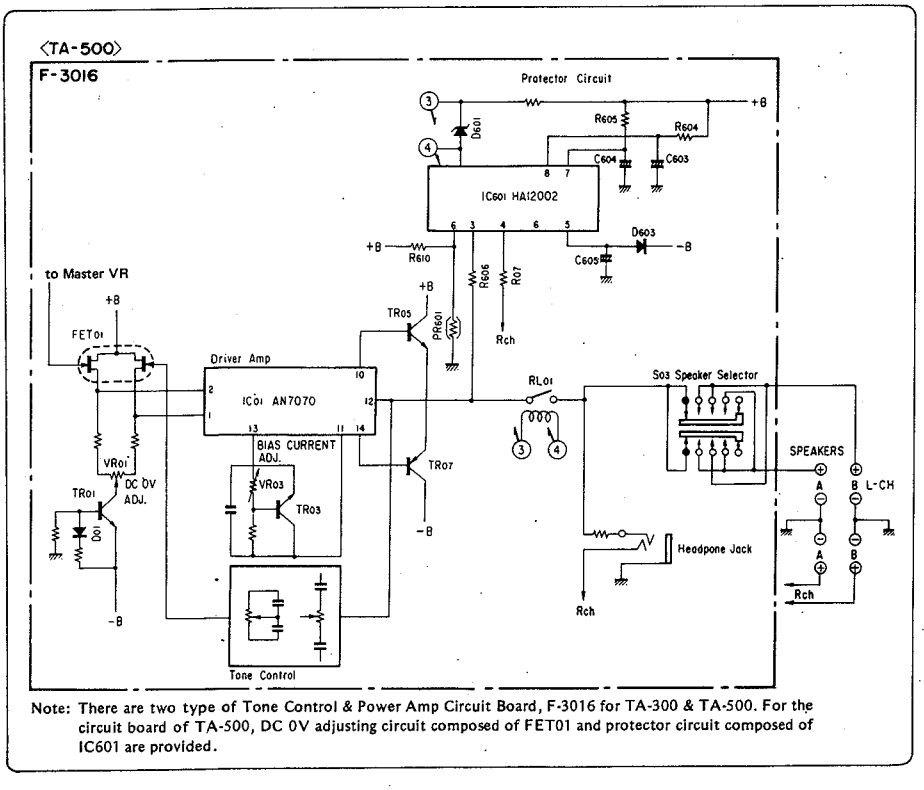
<TA-500> . . . . . 10.9 kg (24.0 lbs) net
12.7 kg (28.0 lbs) packed

* **Design and specifications subject to changes without notice for improvements.**

1. BLOCK DIAGRAM

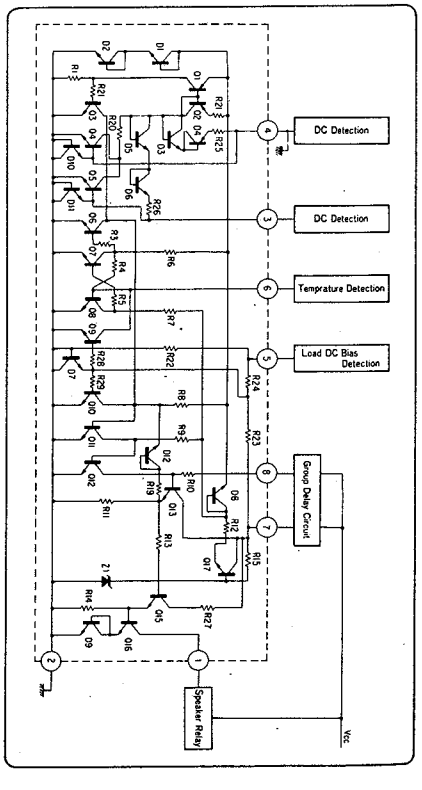


◇ F-3016 Tone Control & Power Amp <TA-500 Only>

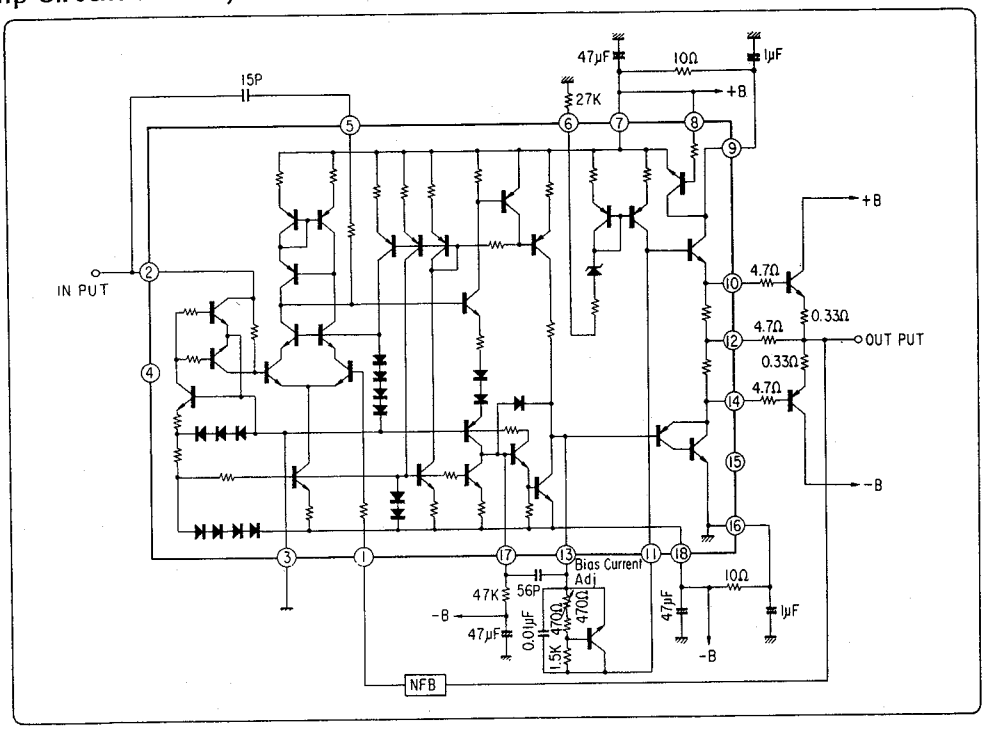


Note: There are two type of Tone Control & Power Amp Circuit Board, F-3016 for TA-300 & TA-500. For the circuit board of TA-500, DC 0V adjusting circuit composed of FET01 and protector circuit composed of IC601 are provided.

◇ Protector Circuit with IC HA12002



◇ Driver Amp Circuit with IC, AN7070



2. ADJUSTMENTS

2-1. Driver Circuit Board Adjustments (See Top View on page 7)

Note: 1. Master Volume . . . . . Minimum
2. Room Temperature . . . . . 18°C ~ 28°C (65°F ~ 83°F)
3. For the adjustment, run the unit for more than 3 minutes after the power is switched on.

(1) DC 0V adjustment (TA-500 only)

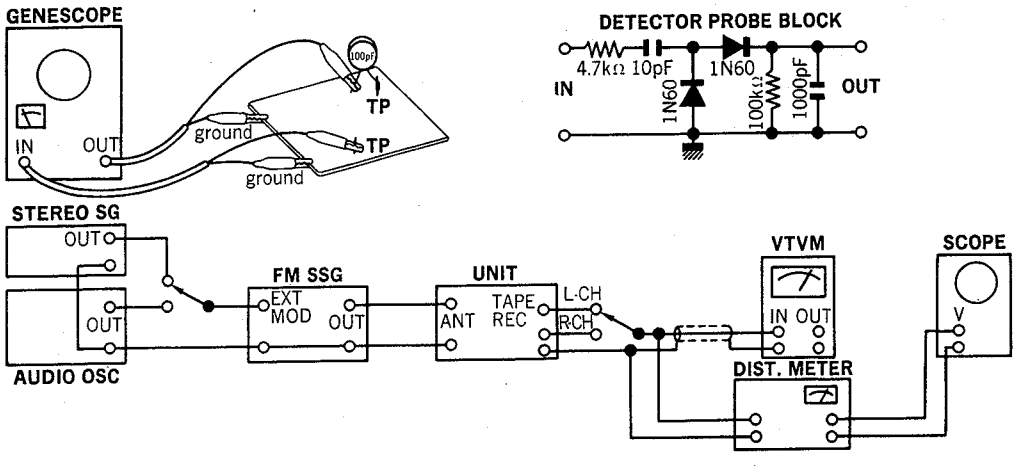
	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-CH	Between (+) and (−) of Speaker Terminal	VR01 F-3016	DC 0V
R-CH	Same as above	VR02 F-3016	DC 0V

(2) Bias Current adjustment

	MEASURE OUTPUT	ADJUST	ADJUST FOR
L-CH	Between emitters of TR05 and TR07	VR03 F-3016	DC 20 mV
R-CH	Between emitters of TR06 and TR08	VR04 F-3016	DC 20 mV

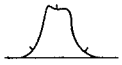
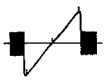
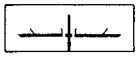
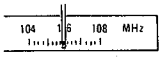
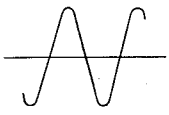
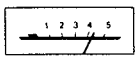
Note: 1. By turning adjustment volumes, VR03 and VR04 counterclockwise, the bias current is decreased.
2. In case of adjusting or confirming bias current, avoid such a measurement that the power transistors are heated.

2-2. FM Adjustment



(1) FM IF, RF Adjustment and Dial Calibration (See Top View on page 7)

Note: 1. Selector . . . . . FM AUTO
2. FM Muting Switch . . . . . OFF
3. Connection . . . . Connect the output of genescope to TC02 through 100 pF ceramic capacitor.

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil	Output 80 dB Genescope	TC02 Front-end	lead wire of R11 F-2988 (Use Detector Probe)	IFT01	Max. IF waveform	
2.	Discriminator Coil	Same as above	Same as above	lead wire of R23 F-2988	T02 T01 F-2988	Steep linearity of S curve Make symmetrical S curve	
	Discriminator Coil in case of using Dist Meter	90 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH Dist Meter	T01 T02 F-2988	Minimum THD	
3.	Tune Meter	Same as above	Same as above	Tune Meter	T01 F-2988	Center to Meter	
4.	106 MHz Dial Calibration	106 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	REC OUT L or R-CH VTVM & Scope	TC03 Front-end	Max. Indication on signal meter & VTVM & Scope. Center Indication on Tune Meter	
5.	106 MHz RF Adj.	106 MHz ANT Input Minimum Value with sine wave 100 Hz (100% MOD) FM SSG	Same as above	Same as above	TC01, TC02 Front-end	Same as above	
6.	Signal Meter Volume	98 MHz ANT Input 65 dBf (59.8 dB) 1000 Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR01 F-2988	4.3 on Meter	

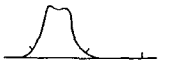
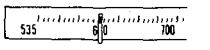
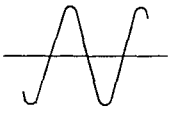
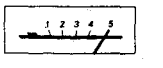
(2) FM STEREO Adjustment (See Top View on page 7)

Note: 1. Selector . . . . . FM AUTO
2. FM Mode Switch . . . . . auto

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	PLL VCO Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator	VR03 F-2988	Adjust the VR03 within center of lighting level	
	PLL VCO Adj. In case of using Freq. counter.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (no MOD)	Same as above	lead wire of R39 F-2988 Use Freq. counter	VR03 F-2988	19 kHz ±50 Hz	
2.	Separation	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R Mode 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	REC OUT L-CH VTVM & Scope	VR02 F-2988	OUT −40 dB	Confirm separation L-CH → R-CH

2-3. AM IF, RF Adjustment and Dial Calibration (See Top View on page 7)

Note: 1. Selector . . . . . AM
2. Confirm start point of dial pointer before alignment.

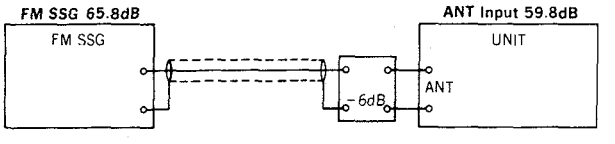
STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
1.	IF Coil	Genescope Output 80dB	TC04 Front-end	lead wire of R65 F-2988	T04 T05 F-2988	Max. IF waveform	
2.	600 kHz Dial Calibration	600 kHz ANT Input 60 dB 400 Hz (MOD 30%) AM SSG	AM ANT terminal	REC OUT L or R-CH VTVM & Scope	T03 F-2988	Max. Output	
	1400 kHz Dial Calibration	1400 kHz ANT Input 60 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	TC04 F-2988	Same as above	
3.	600 kHz RF Adj.	600 kHz ANT Input 60 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	L701 Bar Antenna	Same as above	
	1400 kHz RF Adj.	1400 kHz ANT Input 60 dB 400 Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 F-2988	Same as above	
4.	Signal Meter volume	1000 kHz ANT Input 100 dB 400 Hz (MOD 30%) AM SSG	Same as above	Signal Meter	VR04 F-2988	5 on meter	
5.	9 kHz WHISTLE FILTER	1000 kHz ANT Input 80 dB 9 kHz (MOD 30%) AM SSG	Same as above	REC OUT L or R-CH VTVM & Scope	T06 F-2988	Min. Output	

•NEW MEASUREMENT FOR FM.

Input signal level under the provision of IHFM-T200, a new measurement method is indicated by available power ratio "dBf". To obtain approximate available power ratio "dBf", abstract 0.8 from attenuater indication of general FMSG (open load indication type); however, the former measurement, IHFM-T-100 is designated together too.
The way of modulation on IHFM-T-200 is shown below.

	modulation frequency	modulation mode	modulation factor
FM MONO	1000 Hz		100%
FM STEREO	1000 Hz	SUB	Pilot 9% Pilot + SUB 100%

- The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dB" is shown below.



Abbreviations

Equipment

AM FM Generator Oscilloscope	Genescope
AM Standard Signal Generator	AM SSG
FM Standard Signal Generator	FM SSG
FM Stereo Generator	Stereo SG
Oscilloscope	Scope
Audio Oscillator	Audio Osc.
Distortion Meter	Dist Meter

Others

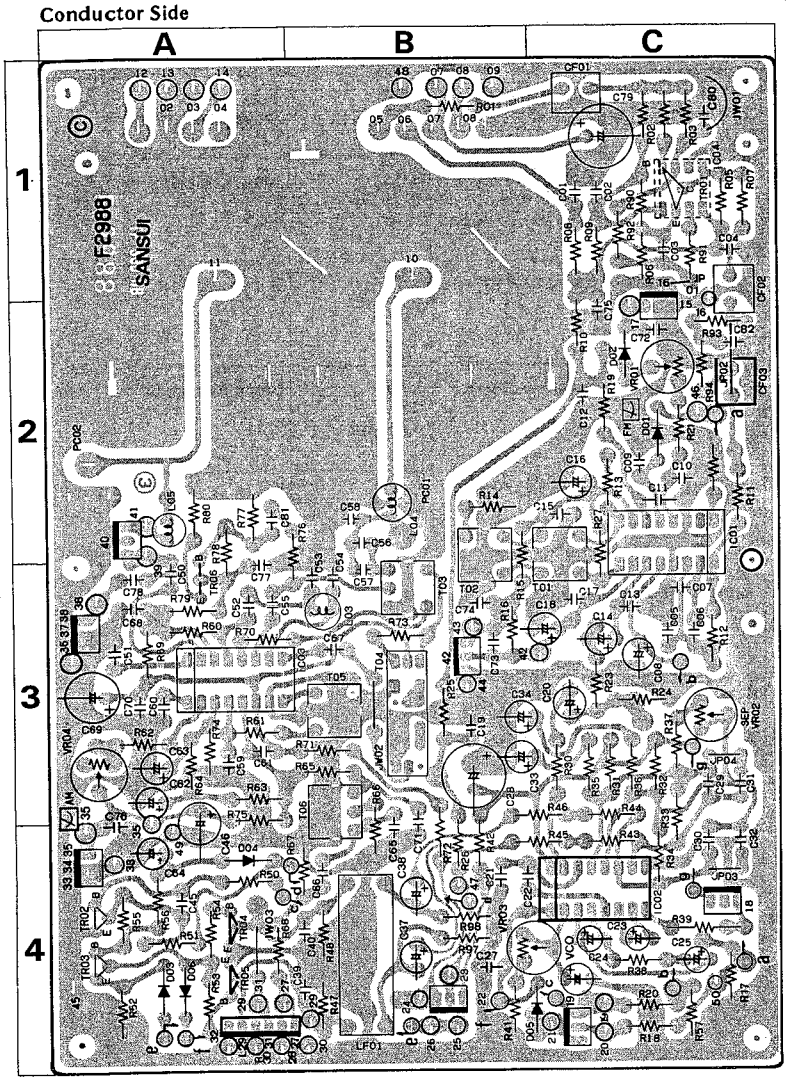
Antenna	ANT.
Modulation	MOD.
Total Harmonic Distortion	T.H.D.

3. PARTS LOCATION & PARTS LIST

Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

3-1. F-2988 Tuner Circuit Board (Stock No. 7522151)

Conductor Side



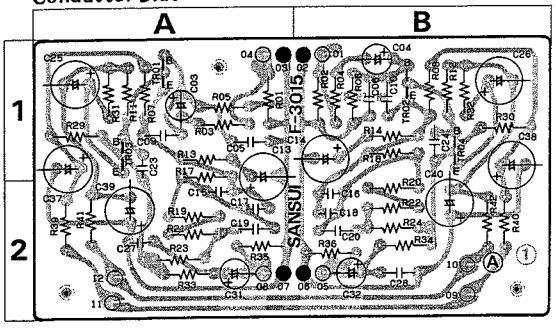
Parts List

Part No.	Stock No.	Description	Position
•Transistor			
TR01	0306341, 2	2SC1674 L, K	1C
TR02	0306740, 1	2SC1845 F, E	4A
TR03	0301090, 1	2SA992 F, E	4A
TR04, 05	0306581, 2	2SC1634 (6, 7)	4A
•IC			
IC 01	0360750	MPC1167C	2C
IC 03	0360800	LA1240	3A
IC 07	0360990	UPC1161C	
•Diode			
D 01 ~ 05	0311160	1S2473D	2C, 4A, 4C
•Varistor			
D 02	0340150	MV12	2C
C 21	0622471	470pF 125V P.C.	4B
C 23	0573228	0.22μF 35WV E.C.	4C
C 24	0573159	1.5μF 35WV E.C.	4C
C 25	0573339	3.3μF 35WV E.C.	4C
C 26	0622471	470pF 125V P.C.	
C 31, 32	0622561	560pF 125V P.C.	3C, 4C
C 56	0622391	390pF 125V P.C.	2B
C 57	0669210	10pF 50V C.C.	3B
C 58	0669406	22pF 50V C.C.	2B
R 39	0210681	680Ω 1/2W N.I.R.	4C
L 01	4290300	18μH Inductor	
L 03	4900110	100μH Inductor	3B
L 04, 05	4900140	1μH Inductor	2B, 2A
T 01	4236050	10.7 MHz quadrature coil	2, 3C
T 02	4236060	10.7 MHz quadrature coil	2, 3B
T 03	4220710 4220730	AM OSC Coil	3B
T 04	0910490	450 kHz Filter	3B
T 05	4230620	450 kHz IF Coil	3B
T 06	0910450	Filter Coil	3B
CF 01, 02	0910480		1C
LF 01	0910220	Low Pass Filter	4B
VR01	1035170	Volume, 47kΩ (B), FM Signal Meter Adj.	2C
VR02	1035210	Volume, 220kΩ (B), FM Stereo Separation Adj.	3C
VR03	1034250	Volume, 4.7kΩ (B), V.C.O. Free Run Adj.	4B
VR04	1035110	Volume, 4.7kΩ (B), AM Signal Meter Adj.	3A

3-2. F-3015 Equalizer Amp Circuit Board

(Stock No. 7551471 – TA-300)
(Stock No. 7551511 – TA-500)

Conductor Side



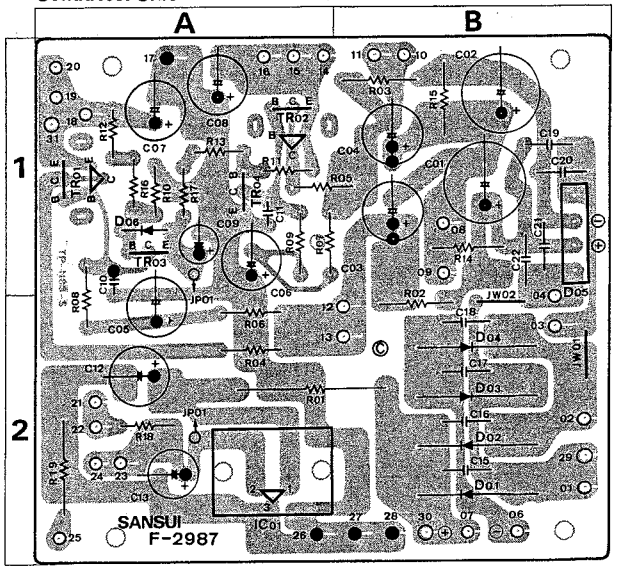
Parts List

Parts No.	Stock No.	Description	Position
•Transistor			
TR01, 02	0300900, 1	2SA906 (G, H)	1A.1B
TR03, 04	0306740, 1	2SC1845 F, E	1A.1B
C 15, 16	0680013	0.0033μF 100V C.	2A.2B
C 17, 18	0622121	120pF 125V P.C.	2A.2B
C 19, 20	0680027	100V 0.012μF M.C.	2A.2B
R 39, 40	0191560	56Ω 1/4W F.R.	2A.2B
R 41, 42	0191560	56Ω 1/4W F.R.	2A.2B

3-3. F-2987 Power Supply Circuit Board

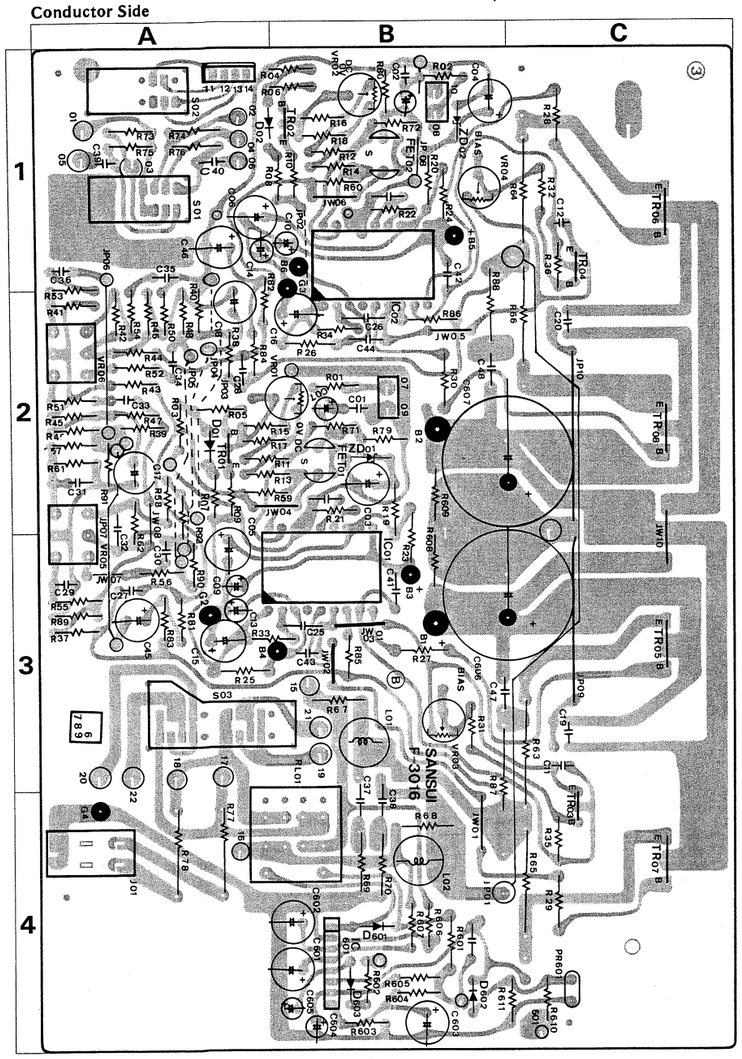
(Stock No. 7503281 – TA-300)
(Stock No. 7503311 – TA-500)

Conductor Side



3-4. F-3016 Tone Control & Power Amp Board (Stock No. 7572201 – TA-300) (Stock No. 7572241 – TA-500)

Conductor Side



Parts List

Parts No.	Stock No.	Description	Position
●Transistor			
TR03, 04	0306740, 1	2SC1845 F, E	4C.1C
●IC			
IC 01, 02	0360940	AN7070	3B.1B
C 19, 20	0682011	0.01μF 100V M.C.	3C.2C
C 29, 30	0680035	0.027μF 100V M.C.	3A
C 31, 32	0680057	0.22μF 100V M.C.	2A
C 33, 34	0680009	0.0022μF 100V M.C.	2A
C 35, 36	0680033	0.022μF 100V M.C.	1A
C 39, 40	0680025	0.01μF 100V M.C.	1A
R 23, 24	0210100	10Ω 1/2W N.I.R.	3B.1B
R 25, 26	0210100	10Ω 1/2W N.I.R.	3A.2B
R 27, 28	0191479	4.7Ω 1/4W F.R.	3B.1C
R 29, 30	0191479	4.7Ω 1/4W F.R.	4C.2B
R 67, 68	0210229	2.2Ω 1/2W N.I.R.	3B.4B
R 85, 86	0191479	4.7Ω 1/4W F.R.	3B.2B
R 608	0211472	4.7kΩ 1W N.I.R.	3B
R 609	0211472	4.7kΩ 1W N.I.R.	2B
L 01, 02	4290370	1μH Filter Coil	3B.4B
VR03, 04	1035050	470Ω (B) Bias Volume	3B.1B
VR05, 06	1015360, 1	100kΩ x 2, Bass & Treble Volume	3A.2A
S 01	1171780	Lever Switch, FM Muting	1A
S 02	1171780	Lever Switch, High Filter	1A
S 03	1190650	Rotary Switch, Speakers	3A
<TA-300>			
●Transistor			
TR05, 06	0301210, 1	2SA1135 (O, Y)	3C.1C
TR07, 08	0306900, 1	2SC2665 (O, Y)	4C.2C
C 606	0549117	4700μF 50V E.C.	3B, C
C 607	0549117	4700μF 50V E.C.	2B, C
R 63, 64	0212338	0.33Ω 2W N.I.R.	3C.1C
R 65, 66	0212338	0.33Ω 2W N.I.R.	4C.2B
R 69, 70	0211100	10Ω 1W N.I.R.	4B
R 77, 78	0212221	220Ω 2W N.I.R.	4A
R 87, 88	0211100	10Ω 1W N.I.R.	3B.2B
<TA-500>			
●Transistor			
TR01, 02	0306680, 1	2SC2071 B, V	2A.1B
TR05, 06	0306920, 1	2SC2578 O, Y	3C.1C
TR07, 08	0301230, 1	2SA1103 O, Y	4C.2C
●IC			
IC 601	0360900	HA12002	4B
●FET			
FET01, 02	0370311, 2	2SK129 L, M	2B.1B
●Diode			
D 01, 02	0311160	1S2473D	2A.1A
D 602	0311160	1S2473D	4B
●Zener Diode			
ZD01, 02	0316240	RD9.1E	2B.1B
ZD601	0316510	RD24E	
C 606	0549118	6800μF 50V E.C.	3B, C
C 607	0549118	6800μF 50V E.C.	2B, C
R 19, 20	0211272	2.7kΩ 1W N.I.R.	2B.1B
R 37, 38	0280302	3kΩ 1/3W N.I.R.	3A.2A
R 63, 64	0213338	0.33Ω 3W N.I.R.	3C.1C
R 65, 66	0213338	0.33Ω 3W N.I.R.	4C.2C
R 69, 70	0212100	10Ω 2W N.I.R.	4B
R 77, 78	0213221	220Ω 3W N.I.R.	4A
R 87, 88	0212100	10Ω 2W N.I.R.	3B.2B
R 601	0212561	560Ω 2W N.I.R.	4B
RL01	1150400	Relay	4B
	1150480	Relay	
	1150490	Relay	
VR01, 02	1035070	1kΩ DC 0V Adj. Volume	2B.1B

Parts List

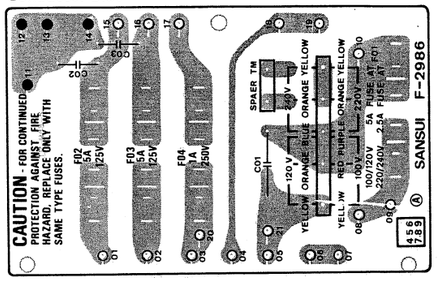
Parts No.	Stock No.	Description	Position
●Transistor			
TR03	0306740, 1	2SC1845 F, E	1A
TR04	0301090, 1	2SA992 F, E	1A
●IC			
IC 01	0361010	FS7815M	2A
●Diode			
D 05	0311700	RB-152	1B
D 06	0311160	1S2473D	1A
C 15 ~ 22	0655103	10000pF 500V C.C.	1, 2B
R 08	0210222	2.2kΩ 1/2W N.I.R.	2A
R 09	0210222	2.2kΩ 1/2W N.I.R.	1A
R 14	0211472	4.7kΩ 1W N.I.R.	1B
R 15	0211472	4.7kΩ 1W N.I.R.	1B
R 18	0191479	4.7Ω 1/4W F.R.	2A
R 19	0212391	390Ω 2W N.I.R.	2A
<TA-300>			
●Transistor			
TR01	0306740, 1	2SC1845 F, E	1A
TR02	0301090, 1	2SA992 F, E	1A

Parts No.	Stock No.	Description	Position
●Diode			
D 01 ~ 04	0311530	30D2	2B
R 01	0135121	120Ω 5W Ce.R.	2A
R 02	0192100	10Ω 1/2W F.R.	1B
R 03	0192100	10Ω 1/2W F.R.	1B
R 06	0210103	10kΩ 1/2W N.I.R.	2A
R 07	0210103	10kΩ 1/2W N.I.R.	1A
<TA-500>			
●Transistor			
TR01	0308391, 2	2SD313 AL D, E	1A
TR02	0303231, 2	2SB507 D, E	1A
●Diode			
D 01 ~ 04	0311570	ERD03-02H	2B
R 01	0135151	150Ω 5W Ce.R.	2A
R 04	0191479	4.7Ω 1/4W F.R.	2A
R 06	0210222	2.2kΩ 1/2W N.I.R.	2A
R 07	0210222	2.2kΩ 1/2W N.I.R.	1A

- The circuit boards, F-2986, F-2983, F-2985, F-2984 & F-3017 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

3-5. F-2986 Fuse Circuit Board

Conductor Side

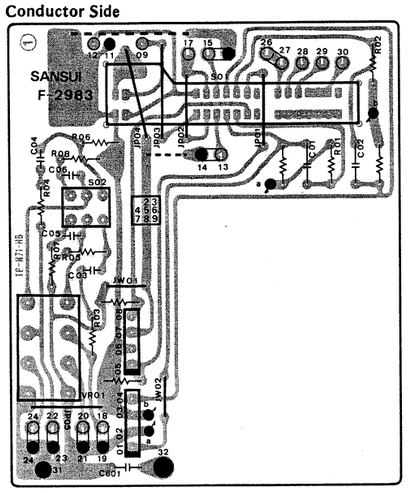

CAUTION - FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE FUSES.
F02 3A 125V
F03 5A 125V
F04 5A 250V
SPARE TM
RED PURPLE ORANGE YELLOW
100V 120V 220V 240V
5A FUSE AT F04
2.5A FUSE AT F03
SANSUI F-2986

Parts List

Parts No.	Stock No.	Description
C 01	0659802	0.0047μF 150V
C 02	0655103	10000pF 500V C.C.
C 03	0655103	10000pF 500V C.C.
F 01	0431250	AC Fuse 2.5A 250V
	0431280	AC Fuse 5A 250V
F 02, 03	0433280	Quick Acting Fuse 5A 250V

3-6. F-2983 Selector Circuit Board

Conductor Side

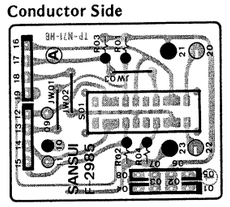


Parts List

Parts No.	Stock No.	Description
C 01, 02	0680057	0.22μF 100V M.C.
C 03, 04	0622511	510pF 125V P.C.
VR01	1020330, 1	150kΩ x 2 Volume
S 01	1190660	Rotary Switch, selector
S 02	1131550	Push Switch, loudness
<TA-500>		
R 901	0200561	560Ω 1/2W N.I.R.

3-7. F-2985 Tape Monitor Switch Circuit Board <TA-500>

Conductor Side

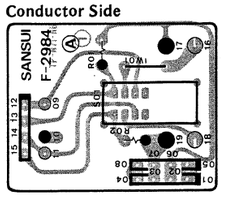


Parts List

Parts No.	Stock No.	Description
S 01	1171880	Lever Switch, tape monitor

3-8. F-2984 Tape Monitor Switch Circuit Board <TA-300>

Conductor Side



Parts List

Parts No.	Stock No.	Description
S 01	1171780	Lever Switch, tape monitor

3-9. F-3017 FM Stereo Indicator Circuit Board

Parts List

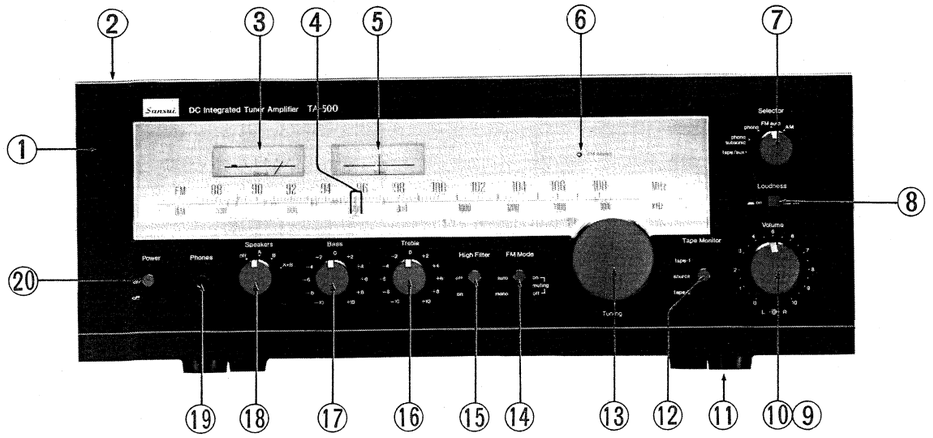
Parts No.	Stock No.	Description
LED01	0319060	LED

Abbreviations

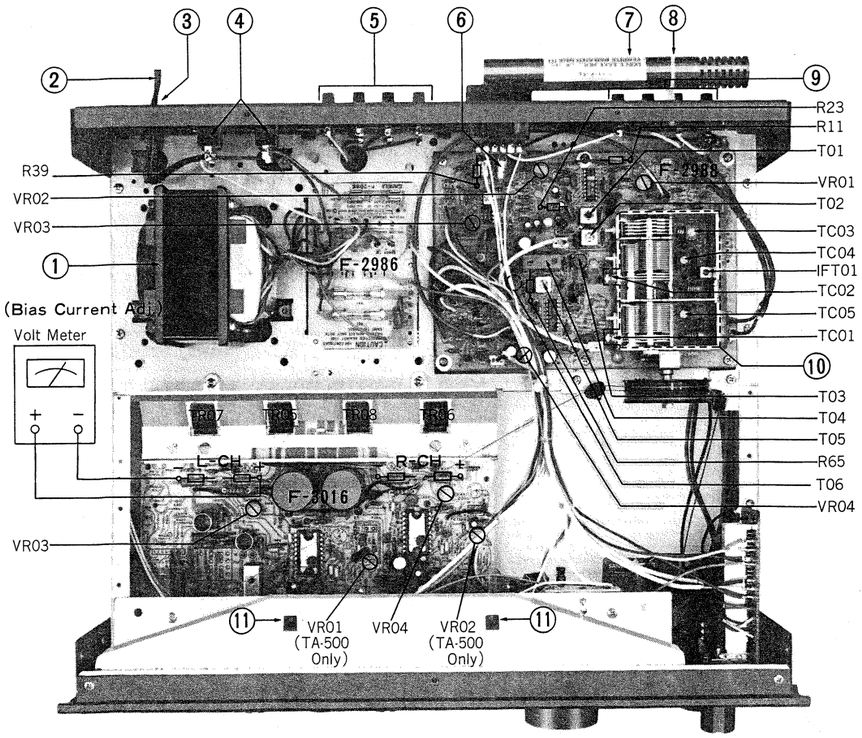
C.R.	Carbon Resistor
S.R.	Solid Resistor
Ce.R.	Cement Resistor
M.R.	Metal Film Resistor
F.R.	Fusing Resistor
N.I.R.	Non-Inflammable Resistor
M.C.	Mylar Capacitor
E.C.	Electrolytic Capacitor
BP.E.C.	Bi-Polar Electrolytic Capacitor
C.C.	Ceramic Capacitor
Mi.C.	Mica Capacitor
O.C.	Oil Capacitor
P.C.	Polystyrene Capacitor
T.C.	Tantalum Capacitor

4. OTHER PARTS

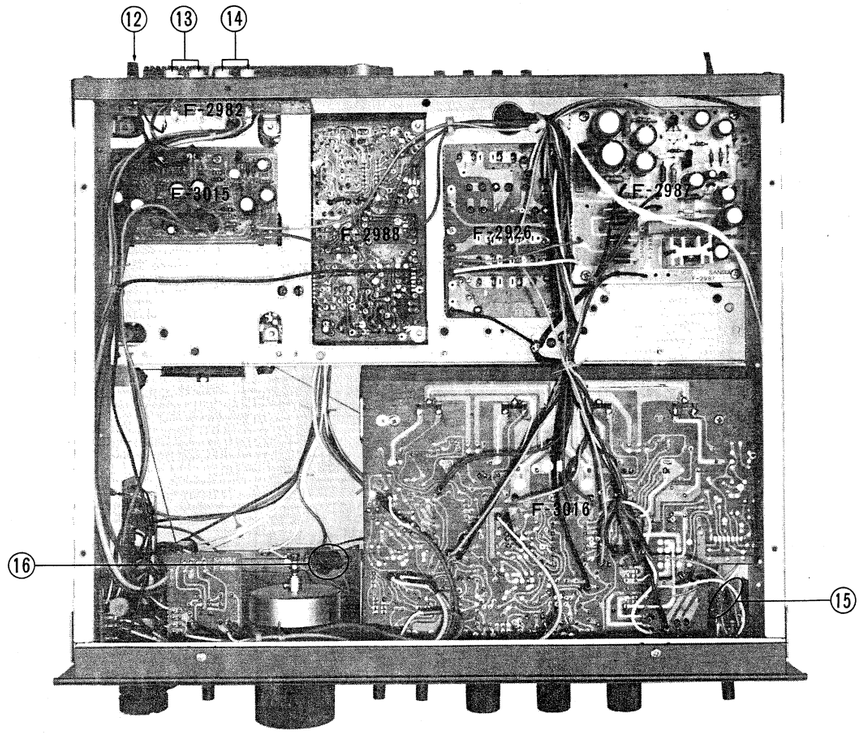
4-1. Front View



4-2. Top View



4-3. Bottom View



Parts List (Front View)

Parts No.	Stock No.	Description
1	7008400	Front Panel Ass'y <TA-300>
	7008190	Front Panel Ass'y <TA-500>
	5456640	Front Glass
	5059060	Masking Plate for Knob
	5059070	Masking Plate for Knob
	5059080	Masking Plate for Knob
2	5006870	Bonnet <TA-300>
	5006900	Bonnet <TA-500>
3	4301290	Signal Meter
4	5416463	Dial Pointer
5	4301300	Tune Meter
6	0319060	Stereo Indicator
7	5318930	Knob, selector
	1190660	Rotary Switch, selector
8	5326620	Knob, loudness
	1131550	Push Switch, loudness
9	5310270	Knob, volume (R-ch)
10	5310280	Knob, volume (L-ch)
	1011190, 1	Master Volume
11	5507350	Leg
12	5326612	Knob, tape monitor
	1171780	Tape Monitor Switch <TA-300>
	1171880	Tape Monitor Switch <TA-500>
13	5318960	Knob, tuning
	7036631	Tuning Unit
14	5326612	Knob, FM mode
	1171780	FM Mode Switch,
15	5326612	Knob, high filter
	1171780	High Filter Switch
16	5318930	Knob, treble
	1015360, 1	Treble Volume
17	5318930	Knob, bass
	1015360, 1	Bass Volume
18	5318930	Knob, speaker selector
	1190650	Rotary Switch, speaker selector
19	2430550	Headphone Jack
20	5326612	Knob, power switch
	1172030	Power Switch <TA-300>
	1172000	Power Switch <TA-500>

Parts List (Top & Bottom View)

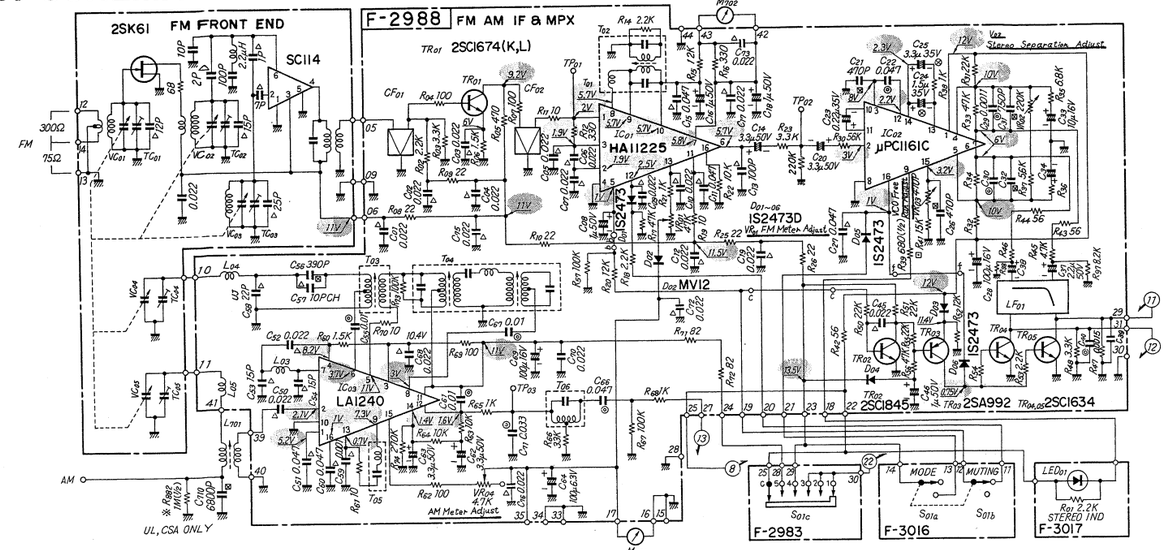
Parts No.	Stock No.	Description
1	4002990	Power Transformer <TA-300>
	4003030	Power Transformer <TA-500>
2	3800470	Power Cord
3	3910600	Strain Relief
4	2450070	AC Outlet
5	2210410	Speaker Terminal
6	0620682	6800pF 50V P.C.
7	4200970	AM Loopstick Antenna
8	3910780	Antenna Holder
9	2210420	Antenna Terminal
10	7510751	FM Front End Pack
11	0400710	Lamp with lead wire
12	2230150	Ground Terminal
13	2200620	Input Terminal (PHONO, TAPE/AUX)
14	2200580	Input Terminal (REC, PLAY)
15	0659801	0.01μF 150V C.C.
16	7136150	Tension Unit

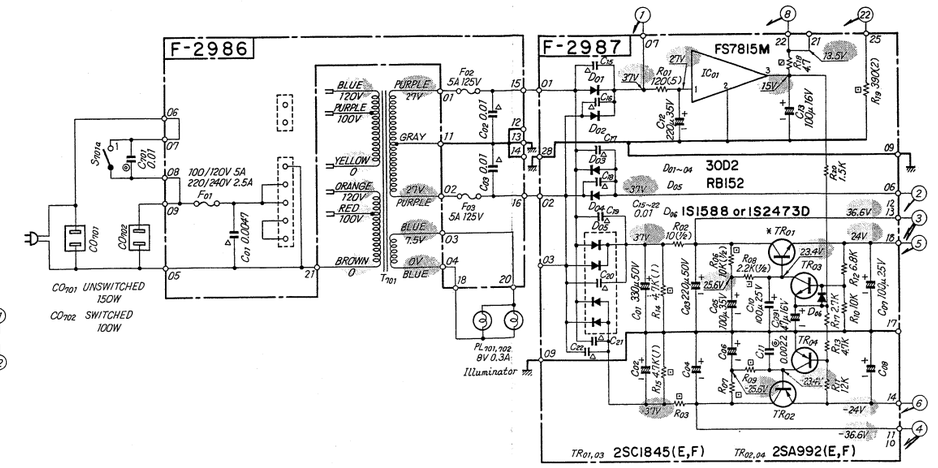
- Design and specifications subject to change without notice for improvement.
- La présentation et les spécifications sont susceptibles d'éter modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

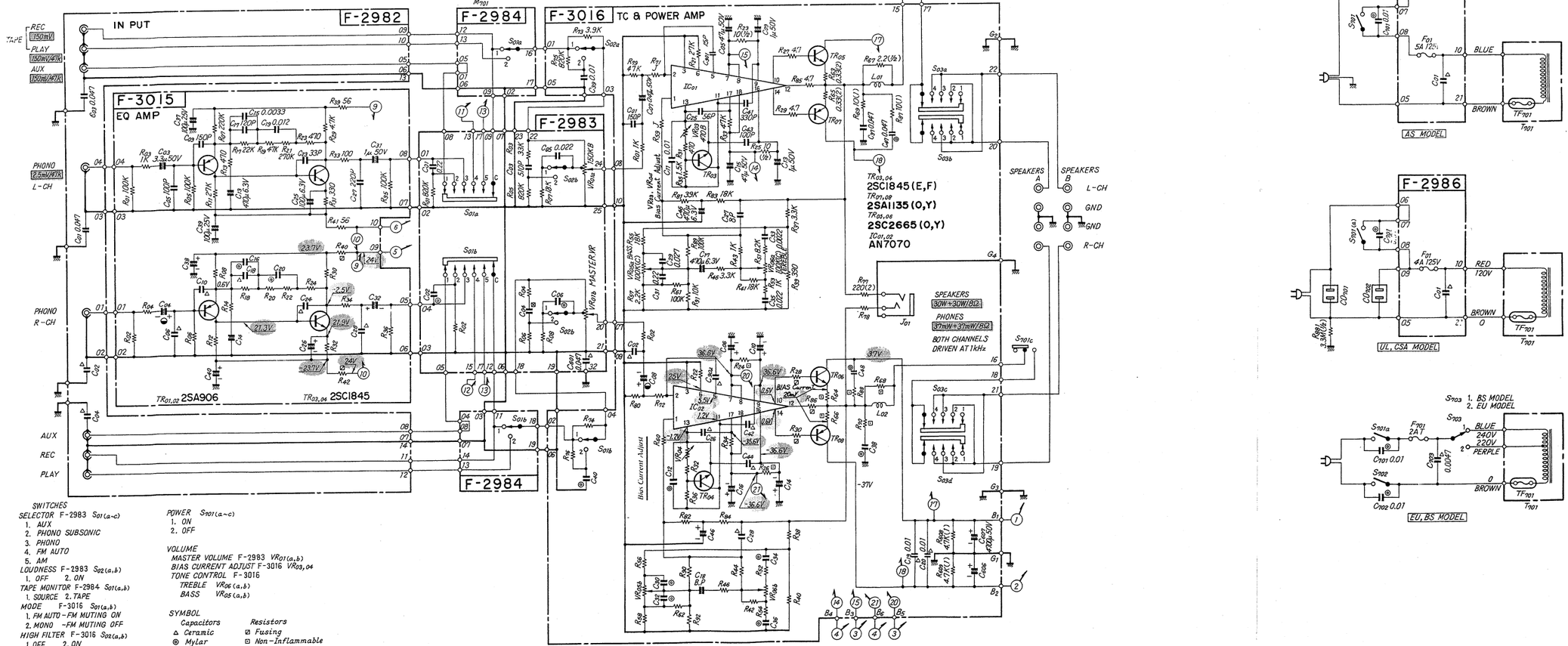
A	B	C	D	E	F	G	H

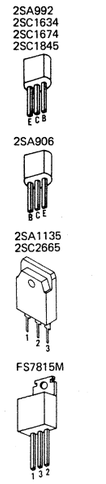
5. SCHEMATIC DIAGRAM

5-1. TA-300









SWITCHES

SELECTOR F-2983 S_{01}(a-c)
1. AUX
2. PHONO SUBSONIC
3. PHONO
4. FM AUTO
5. AM

LOUDNESS F-2983 S_{02}(a,b)
1. OFF 2. ON

TAPE MONITOR F-2984 S_{01}(a,b)
1. SOURCE 2. TAPE

MODE F-3016 S_{01}(a,b)
1. FM AUTO-FM MUTING ON
2. MONO -FM MUTING OFF

HIGH FILTER F-3016 S_{02}(a,b)
1. OFF 2. ON

SPEAKER F-3016 S_{03}(a-d)
1. OFF
2. A
3. B
4. A+B

POWER S_{901}(a-c)
1. ON
2. OFF

VOLUME
MASTER VOLUME F-2983 VR_{01}(a,b)
BIAS CURRENT ADJUST F-3016 $VR_{03,04}$
TONE CONTROL F-3016
TREBLE VR_{06}(a,b)
BASS VR_{05}(a,b)

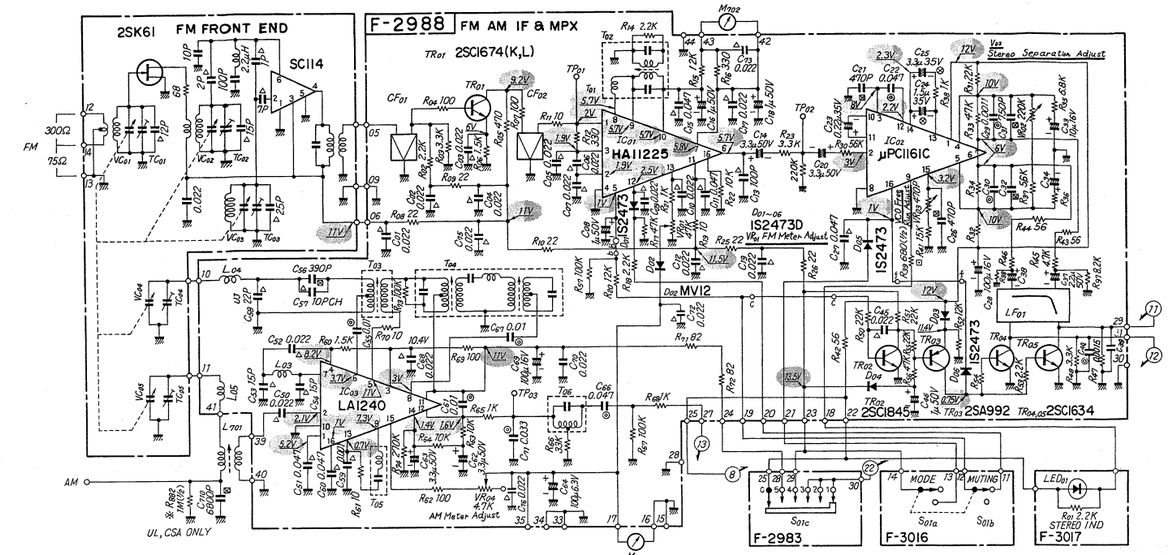
SYMBOL

Capacitors	Resistors
△ Ceramic	☑ Fusing
◎ Mylar	⊡ Non-Inflammable
□ Styrol	

* Each DC voltage shows the nominal value in volts at no input signal.

- Design and specifications subject to change without notice for improvement.
- La présentation et les spécifications sont susceptibles d'éter modifiées sans préavis par suites d'améliorations éventuelles.
- Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

5-2. TA-500



2SA992
2SC1634
2SC1674
2SC1845

2SA906

2SC2071

2SD313
2SB507

2SK129

2SA1103
2SC2578

1S2473D

FS7815M

RD9.1E
RD24E

AN7070

MV12

HA12002

ERD03-02H

RB-152

LA1240
μPC1161C
HA11225

1 2 3 4 5

6. THREADING OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures.
  As this unit uses 0.5 mmϕ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 170 cm (66.9 inch).

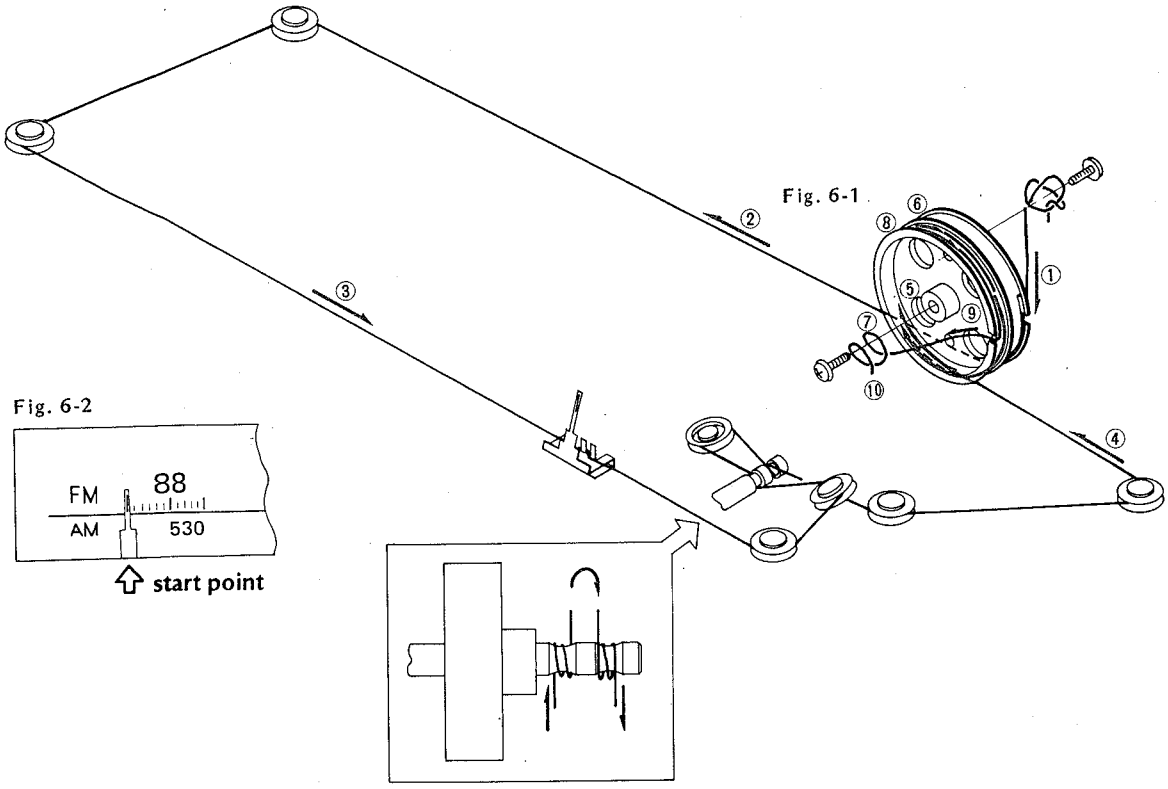


Fig. 6-1

Fig. 6-2

6-1. Threading of Dial Cord

Thread the dial cord in numerical order from 1 to 10 as Fig. 6-1.

- Open the variable capacitor completely.

Stock No.	Description
6036051	Dial Cord (0.5 mmϕ)
6146721	Dial Pulley

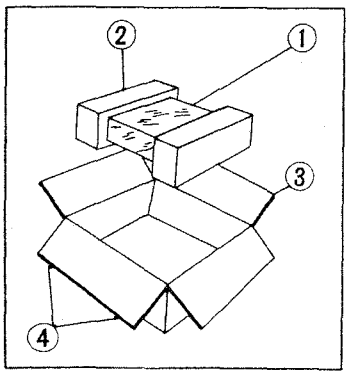
6-2. Attachment of Dial Pointer

Set the dial pointer to the start-point as Fig. 6-2.

- Confirm that the dial pointer runs smoothly on the dial scale by turning the tuning shaft.

7. PACKING LIST

Parts No.	Stock No.	Description
1	9116790	Vinyl Cover
2	9028320	Styrofoam Packing (ea.)
3	9001660	Carton Case <TA-300>
	9001691	Carton Case <TA-500>
4	5996080	Curl Stopper



8. ACCESSORY PARTS LIST

Stock No.	Description
9204480	Operating Instructions <TA-300>
9204470	Operating Instructions <TA-500>
9238060	Schematic Diagram <TA-300>
9238090	Schematic Diagram <TA-500>
5396720	Rack Mounting Adaptor (ea.)
3820100	FM Antenna

MEMO

Sansui

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